

LAKE: KINGSBURY P
TOWN: MAYFIELD TWP
COUNTY: SOMERSET

MIDAS: 262
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

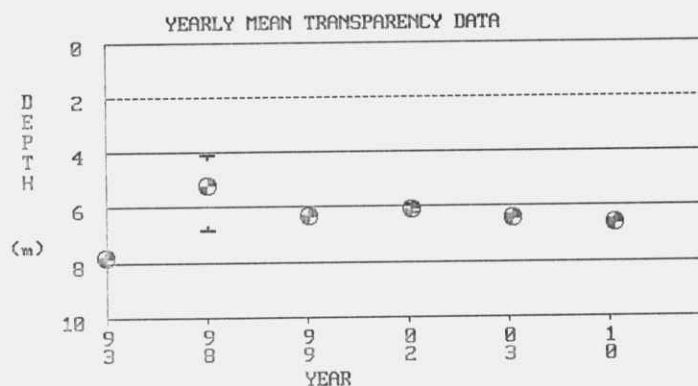
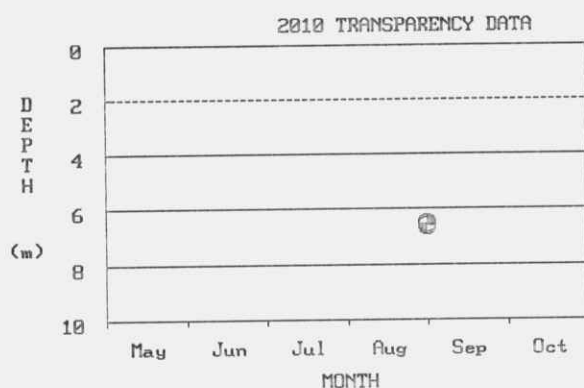
MAX. DEPTH: 19 m. (62 ft.)
MEAN DEPTH: 6 m. (19 ft.)
DELORME ATLAS #: 31
USGS QUAD: KINGSBURY
IFW REGION E: Moosehead Lake (Greenville)
IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 156.0 ha. (385.5 a.)
FLUSHING RATE: 2.08 flushes/yr.
VOLUME: 9338330.6 cu. m. (7575 ac.-ft.)
DIRECT DRAINAGE AREA: 12.65 sq. km. (4.88 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. KINGSBURY P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN				MEAN				TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A (ppb)			TROPIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.	CORE	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS			
	(SPU)		(mg/l)	(uS	/cm)															C	G	SEC	CHL
1993	3	-	5.5	-	7	-	-	-	-	-	-	-	7.8	7.8	7.8	1	1.4	1.4	1.4	-	-	-	-
1998	25	-	6.0	24	13	-	15	-	-	-	-	-	4.1	5.2	6.8	4	5.9	5.9	5.9	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	6.3	6.3	6.3	1	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	5.9	6.1	6.2	2	-	-	-	-	-	-	-
2003	11	-	6.2	30	7	-	-	-	-	-	-	-	6.3	6.4	6.4	1	2.3	2.3	2.3	-	-	-	-
2010	-	-	-	-	9	-	-	-	-	-	-	-	6.5	6.6	6.6	1	2.4	2.4	2.4	-	-	-	-
SUMMARY:	13	-	5.9	27	9	-	15	-	-	-	-	-	4.1	6.4	7.8	6	1.4	3.0	5.9	-	-	-	-

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE							
	08/27/93		08/13/98		08/12/03		08/30/10	
m	°C	dpm	°C	dpm	°C	dpm	°C	dpm
0.0	24.0	8.5	24.0	8.0	24.1	8.0	21.7	9.0
1.0	24.0	8.6	23.8	8.1	24.0	8.1	21.7	9.0
2.0	23.2	8.5	23.0	7.9	23.3	8.1	21.6	9.0
3.0	22.8	8.6	23.0	7.9	22.5	8.2	21.4	8.9
4.0	22.2	8.6	23.0	7.9	22.1	8.1	21.4	8.9
5.0	22.0	8.5	20.2	7.9	20.4	8.0	21.2	8.9
6.0	21.5	8.3	17.2	4.2	15.7	7.4	20.4	8.5
7.0	17.2	6.3	15.0	3.5	12.3	6.0	18.0	5.0
8.0	14.7	4.3	13.0	2.2	10.2	4.8	13.6	1.7
9.0	12.0	3.8	12.0	2.1	9.5	4.5	12.2	1.7
10.0	10.8	4.1	11.5	2.1	9.1	4.4	11.7	1.9
11.0	10.4	4.0	11.5	2.1	8.9	4.2	11.5	1.8
12.0	10.1	3.5	11.0	1.8	8.8	4.2	11.3	1.6
13.0	9.8	2.9	11.0	1.8	8.6	4.2	11.1	1.3
14.0	9.3	2.6	11.0	0.3	8.3	4.1	11.0	1.2
15.0	9.1	2.0	-	-	8.2	3.6	10.9	1.1
16.0	9.0	1.9	-	-	8.1	3.2	10.8	0.9
17.0	9.0	1.7	-	-	-	-	10.8	0.7

WATER QUALITY SUMMARY

KINGSBURY POND, Mayfield Township

MIDAS: 0262, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Kingsbury Pond have been collected since 1993. During this period, 3 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Kingsbury Pond is considered average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Kingsbury Pond is low.

Water Quality Measures: Kingsbury Pond is a non-colored lake (average color 13 SPU) with an average SDT of 6.4 m (21.0 ft). The range of water column TP for Kingsbury Pond is 7 - 13 parts per billion (ppb) with an average of 9 ppb. Chla ranges from 1.4 - 5.9 ppb with an average of 3.2 ppb. Recent dissolved oxygen (DO) profiles show low to moderate DO depletion in deep areas of the lake. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is moderate. Oxygen levels below 5 parts per million stress certain cold water fish and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

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